AUTODOC CLUB

# How to change front strut mount on **Mercedes W169** – replacement guide

## VIDEO TUTORIAL

**Important!**

This replacement procedure can be used for:
MERCEDES-BENZ A-Class (W169) A 200 CDI (169.308, 169.008), MERCEDES-BENZ A-Class (W169) A 170 (169.032, 169.332), MERCEDES-BENZ A-Class (W169) A 200 (169.033, 169.333), MERCEDES-BENZ A-Class (W169) A 160 CDI (169.006, 169.306), MERCEDES-BENZ A-Class (W169) A 180 CDI (169.007, 169.307), MERCEDES-BENZ A-Class (W169) A 200 CDI (169.008, 169.308), MERCEDES-BENZ B-Class (W245) B 180 CDI (245.207), MERCEDES-BENZ B-Class (W245) B 200 CDI (245.208), MERCEDES-BENZ B-Class (W245) B 170 (245.232), MERCEDES-BENZ B-Class (W245) B 200 (245.233), MERCEDES-BENZ B-Class (W245) B 200 TURBO (245.234), MERCEDES-BENZ B-Class (W245) B 150 (245.231), MERCEDES-BENZ A-Class (W169) A 200 TURBO (169.034, 169.334), MERCEDES-BENZ B-Class (W245) B 170 NGT (245.233), MERCEDES-BENZ A-Class (W169) A 160 (169.031, 169.331), (+ 3)

The steps may slightly vary depending on the car design.

# REPLACEMENT: STRUT MOUNT – MERCEDES W169.
# TOOLS YOU NEED:

- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #16
- Combination spanner #21
- Drive socket # E12
- Drive socket # 21
- HEX bit no.H6.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Crow bar
- Water pump pliers
- Hydraulic strut spring compressor
- Wheel chock

BUY TOOLS

Replacement: strut mount – Mercedes W169. Professionals recommend:

- All mounts of the front shock struts should be replaced simultaneously.
- The replacement procedure is identical for the mounts of the left and right shock struts of the front suspension.
- Be sure to replace all self-locking nuts and bolts during installation.
- All work should be done with the engine stopped.

## REPLACEMENT: STRUT MOUNT – MERCEDES W169. RECOMMENDED SEQUENCE OF STEPS:

**1** Secure the wheels with chocks.

**2** Loosen the wheel mounting bolts. Use wheel impact socket #17.

**3** Raise the front of the car and secure on supports.

**4** Unscrew the wheel bolts.

## AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Mercedes W169

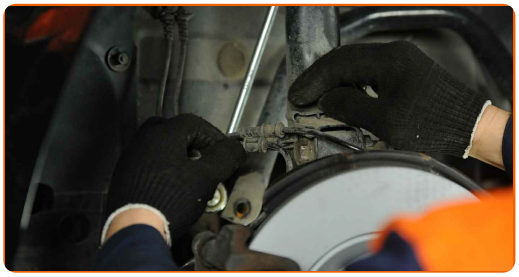
**5** Remove the wheel.

**6** Clean the stabiliser link fasteners. Use a wire brush. Use WD-40 spray.

**7** Unscrew the fastener connecting the stabilizer link to the stabilizer bar. Use a combination spanner #16. Use HEX No.H6. Use a ratchet wrench.

8 Disconnect the ABS sensor cable fastener. Use water pump pliers. Use a crowbar.

9 Disconnect the cable fastener of the brake pads wear sensor from the shock absorber strut. Use a crowbar.



10 Dismantle the retainer. Use a crowbar.

11 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

12 Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a ratchet wrench.

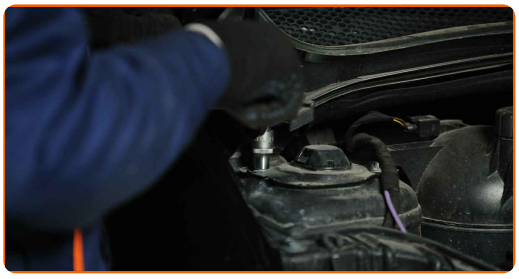
**13** Remove the fastening bolts.

**14** Disconnect the steering knuckle from the shock absorber strut.

**15** Lower the car. Open the hood.

**16** Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

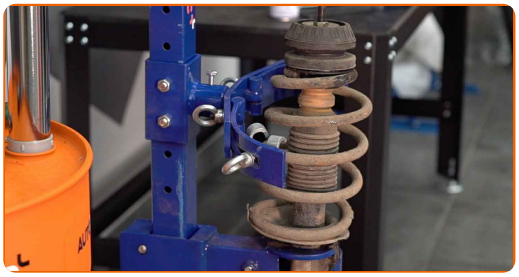
**17** Unscrew the top fastening of the shock strut mount. Use a drive socket #E12. Use a ratchet wrench.



**18** Remove the coolant reservoir.

**19** Remove the suspension strut. Use a crowbar.

**20** Set the shock absorber strut on the spring compressor tool.



## Replacement: strut mount – Mercedes W169. AUTODOC recommends:

- Note that when using a spring compressor, spring coils need to be securely gripped, compressing the spring on the opposite sides.
- Ensure the correct position of the spring in the retainer.
- Make sure that the spring coils tightly entered the lock handles.

**21** Compress the spring.

**22** Remove the protective cap from the shock absorber strut mount. Use a flat screwdriver.

**23** Treat the shock strut rod. Use a wire brush. Use WD-40 spray.

**24** Remove the strut piston rod nut. Use a drive socket #21. Use HEX No.H6. Use a ratchet wrench.

**25** Remove the top strut mount. Use a crowbar.

## Replacement: strut mount – Mercedes W169. Tip:

- Examine the shock absorber dust cap and the bump stop. Replace them if necessary.

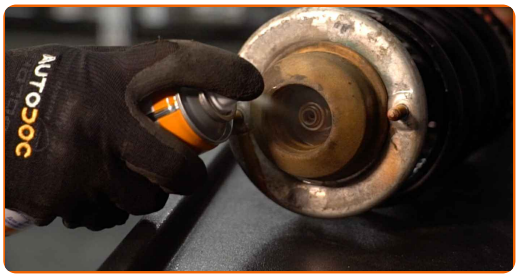
**26** Install a new strut mount.

**27** Tighten the shock strut piston rod nut. Use a drive socket #21. Use HEX No.H6. Use a torque wrench. Tighten it to 65 Nm torque.

## Replacement: strut mount – Mercedes W169. AUTODOC experts recommend:

- Check to make sure the spring is positioned correctly. Avoid its misalignment.

**28** Treat the shock strut rod. Use copper grease.




**29** Install the protective cap onto the shock absorber strut mount.

**30** Decompress the spring.

**31** Remove the assembled shock strut.

**32** Install the shock strut into the wheel arch.

**33** Tighten the shock strut top mount. Use a drive socket #E12. Use a torque wrench. Tighten it to 20 Nm torque.+45°

AUTODOC recommends:

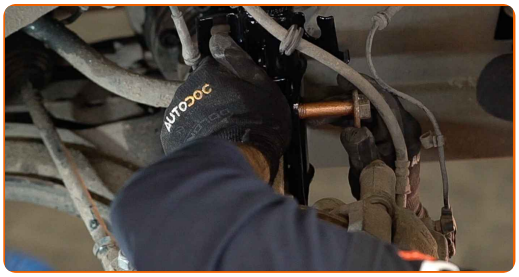
- Important! Be sure to use new fasteners.

**34** Install the coolant reservoir.

**35** Remove the fender protection cover. Close the hood.

**36** Raise the front of the car and secure on supports.

**37** Fix the shock absorber strut on the steering knuckle. Install the fastening bolts.



**38** Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #21. Use a torque wrench. Tighten it to 120 Nm torque.+90°

## AUTODOC recommends:

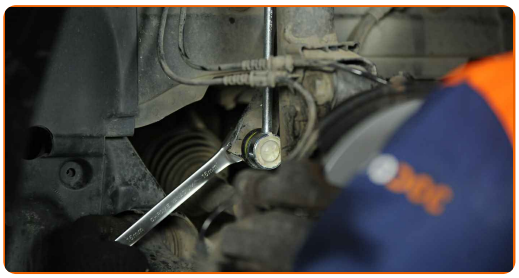
- Important! Be sure to use new fasteners.

**39** Install the bracket onto the shock absorber strut.

**40** Connect the brake pad wear sensor plug.

**41** Connect the ABS sensor wiring.

**42** Tighten the fastener connecting the stabilizer link to the stabilizer bar. Use a combination spanner #16. Use HEX No.H6. Use a torque wrench. Tighten it to 60 Nm torque.



**43** Treat the shock strut fasteners. Use copper grease.

**44** Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

**45** Clean the brake disk surface. Use a brake cleaner.

## AUTODOC recommends:

- Replacement: strut mount – Mercedes W169. After applying the spray, wait a few minutes.

**46** Install the wheel.

## Replacement: strut mount – Mercedes W169. Tip from AUTODOC:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

**47** Screw in the wheel bolts. Use wheel impact socket #17.

**48** Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 Nm torque.

**49** Remove the jacks and chocks.

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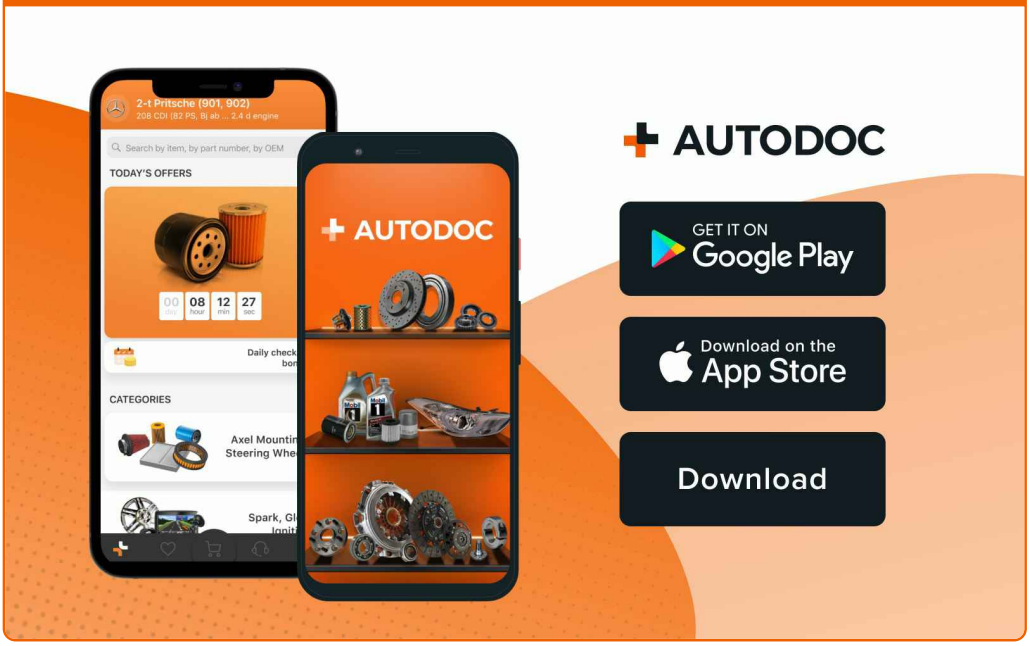


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